

# SERVICE MANUAL

## STEREO MUSIC SYSTEM

**SANYO****DXT 5004**  
(USA)

### SPECIFICATIONS (Nominal)

#### FM TUNER SECTION

Frequency Range	88MHz to 108MHz
S/N 30dB Sensitivity	15 $\mu$ V
Limiting Sensitivity	30 $\mu$ V
Image Rejection	27dB
IF Rejection	60dB
Spurious Rejection	50dB
Selectivity (IHF)	15dB
Electrical Fidelity	40/15kHz
Harmonic Distortion	Mono 1.0%
	Stereo 1.5%
Stereo Separation (1,000Hz)	20dB
Tracking Error	200kHz

#### AM TUNER SECTION

Frequency Range	535kHz to 1,605kHz
Usable Sensitivity (IHF)	300 $\mu$ V/m
Selectivity (IHF)	23dB
Image Rejection (1,000kHz)	40dB
IF Rejection (1,000kHz)	40dB
Signal to Noise Ratio	40dB
Tracking Error	30kHz

#### AUDIO SECTION

Continuous Power Output (8 ohm)	
Both Channel Driven @1,000Hz	2.2/2.2W
Both Channel Driven @150 to 20kHz	2.2/2.2W
Each Channel Driven @1,000Hz	2.5/2.5W

Harmonic Distortion @ Rated Power	2.0%
Power Bandwidth	150 – 20kHz
Frequency Response ( $\pm$ 3dB Aux.)	10 – 25kHz
Input Sensitivity/Impedance	AUX 180mV/100k ohm
	Phono 300mV/1M ohm
Output Voltage	300mV
Tone Control	Bass at 100Hz –10dB
	Treble at 10kHz –10dB
Signal to Noise Ratio	AUX 65dB
	Phono 55dB

#### 8 TRACK TAPE RECORDER SECTION

Frequency Response (PB)	60 – 10kHz
Distortion	3.0%
Signal to Noise Ratio	42dB
Channel Balance	1.0dB
Crosstalk	45dB
Channel Separation	35dB
Tape Speed (3-3/4 ips)	$\pm$ 3%
Wow and Flutter (RMS Unweighted NAB)	0.2%

#### GENERAL SECTION


Power Requirement	AC 120V, 60Hz
Dimension	Width 480mm
	Depth 365mm
	Height 230mm (W/Dust Cover)

—Specifications are subject to change without notice.—



# AM-FM RF/IF AMP/MPX ADJUSTMENT



## AM ADJUSTMENT

Step	Adjusting circuit	Connection		SG. frequency	Position of tuning dial	Adjustment	V.T.V.M. Oscilloscope
		Input	Output				
1	IF	Connect sweep generator to VC4.	Connect oscilloscope to test point TP2	455 KHz	Near max. capacity of VC at position with no signal.	AM 1st 9-21160 (Yellow) AM 2nd 9-21170 (White) AM 3rd 9-21180	 455 KHz
2	RF	Connect standard loop antenna to output terminal of SG. Place receiver 2 feet from loop antenna	Connect V.T.V.M. to TP2	600 KHz (400Hz, 30 % modulation)	600 KHz	AM ANT 9-25030 AM OSC 9-20810(Red)	Max.
3				1400 KHz (400Hz, 30 % modulation)	1400 KHz	TC AM OSC TC AM ANT	Max.
4	Repeat adjustments.						

1. Variable capacitor completely closed.
2. Set the dial pointer to very left line dial scale.
3. Connect sweep generator, SG, V.T.V.M. and oscilloscope.

4. Function switch to "AM."
5. Use a screwdriver with plastic grip for all adjustments.

## FM ADJUSTMENT

Step	Adjusting circuit	Connection		SG.frequency	Position of tuning dial	Adjustment	V.T.V.M. Oscilloscope
		Input	Output				
1	IF	Connect sweep generator to test point TP 5 through 0.01 $\mu$ F.	Connect oscilloscope to test point TP3	10.7 MHz (none modulation)	Near max.capacity of VC. at position with no signal.	FM 1st 9-21130 (Orange) FM 2nd 9-21140 (Black)	 10.7MHz
2	Ratio Det.		Connect oscilloscope to test point TP3			FM DET 9-20850(Pink) 9-21150(Blue)	 10.7MHz
3	RF	Connect FM SG. to FM ANT terminals.	Connect V.T.V.M. to speaker terminal.	90 MHz (400 Hz, 30 % modulation)	90 MHz	FM ANT 9-21120 FM OSC 9-20800 FM Coil 9-20370	Max.
4				106 MHz (400 Hz, 30 % modulation)	106 MHz	TC FM OSC TC FM CRF	Max.
5	Repeat adjustments.						

1. Variable capacitor completely closed.
2. Set the dial pointer to very left line of dial scale.
3. Connect sweep generator, FM SG, V.T.V.M. and oscilloscope. FM ANT input impedance is 300 ohm.

4. Function switch to "FM AUTO".
5. Use a screwdriver with plastic grip for all adjustments.

## FM MPX ADJUSTMENT

Step	Adjusting circuit	Connection		Position of tuning dial	Adjustment
		Input	Output		
1	PLL IC FO (19 KHz) Adjustment	None	Connect Frequency counter or synchroscope to TP4	Near max. capacity of VC. at position with no signal.	Adjust VR02 (5K-B) so that 19 KHz may be indicated on the frequency counter or synchroscope.
2	FM STEREO Signal Separation	Connect FM stereo SG to FM ANT terminals. 19 KHz signal ON. Main channel, sub channel signal ON. Add 1000 Hz signal from L Ch.	Connect V.T.V.M. to output terminal (R channel).		
		Connect FM stereo SG to FM ANT terminals. 19 KHz signal ON. Main channel, sub channel signal ON. Add 1000 Hz signal from R Ch.	Connect V.T.V.M. to output terminal (L channel)		
3	Repeat steps 1, 2, Set at position with max. channel separation.				

1. Variable capacitor completely closed.
2. Connect FM stereo SG and V.T.V.M.

3. Function switch to "FM AUTO".
4. Use a screwdriver with plastic grip for all adjustments.

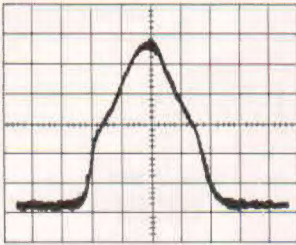


# ALIGNMENT WAVE FORMS

WITH OSCILLOSCOPE TIME BASE SETTINGS

FM IF CURVE

100KHz

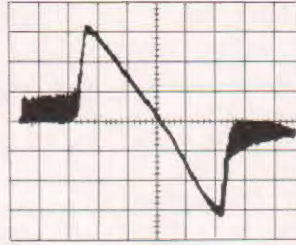


Vertical Sensitivity: 0.5V/cm.  
Horizontal Sweep: 100 usec./cm.

IF FREQ.  
FM IF  
ALIGNMENT

S-CURVE

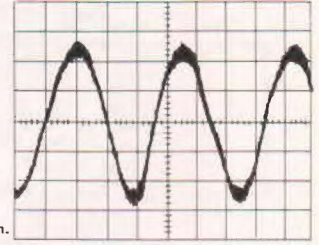
100KHz



Vertical Sensitivity: 0.5V/cm.  
Horizontal Sweep: 100 usec./cm.

FM DETECTOR  
ALIGNMENT

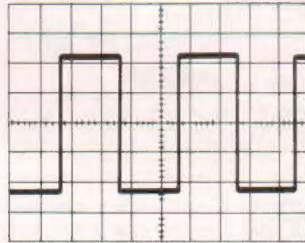
SINE WAVE



Vertical Sensitivity: 0.5V/cm.  
Horizontal Sweep: 500 usec./cm.

SYMMETRICAL  
TUNING

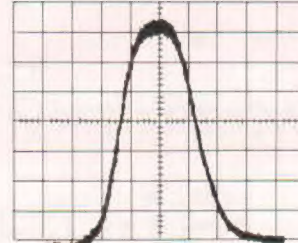
SQUARE WAVE



Vertical Sensitivity: 0.5V/cm.  
Horizontal Sensitivity: 0.5V/cm.

MPX F.R.F.C.  
ADJUSTMENT

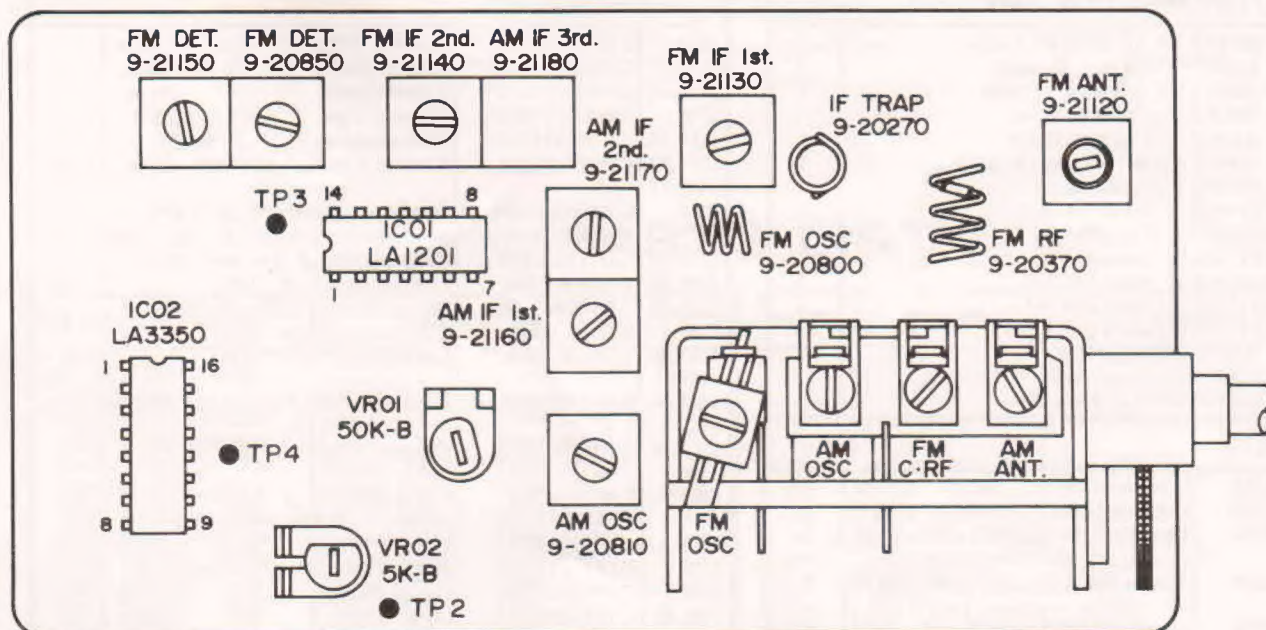
AM IF CURVE



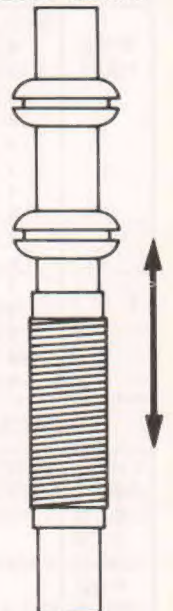
Vertical Sensitivity: 0.5V/cm.  
Horizontal Sweep: 100 usec./cm.

10KHz  
AM IF  
ALIGNMENT

## AM-FM RF/IF MPX BOARD LAYOUT



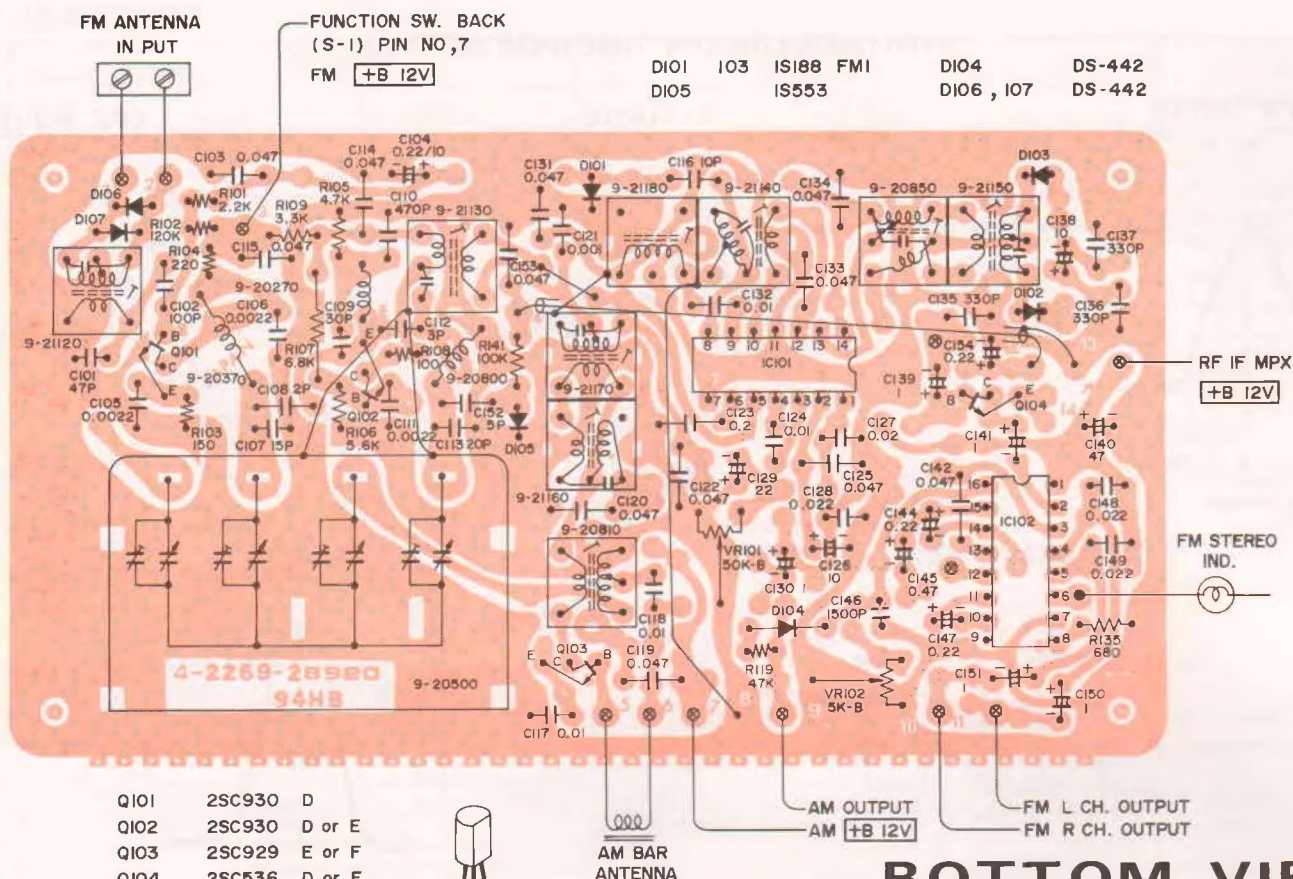
AM ANTENNA  
4-2579-25030



TOP VIEW



# AM FM RF/IF MPX P.C.BOARD



## BOTTOM VIEW

## PARTS LIST

Ref.No.	Part No.	Description	Q'ty
<b>AM/FM RF/IF MPX PCB Assy</b>			
VR02	131 0 4001 69100	RF, IF, MPX PC Assy	1
VR01	4 2229 24040	VR 5KBx1 Sepacon	1
	4 2229 24920	VR B-50Kx1 IC Bias	1
	4 2249 20500	Variable Capacitor	1
	4 2539 20270	IF Trap Coil FM IF	1
	4 2569 20850	Voice IF Trans FM DET	1
	4 2569 21130	IF Trans FM 1st	1
	4 2569 21140	IF Trans FM 2nd	1
	4 2569 21150	IF Trans FM DET	1
	4 2569 21160	IF Trans AM 1st	1
	4 2569 21170	IF Trans AM 2nd	1
	4 2569 21180	IF Trans AM 3rd	1
	4 2579 21120	Antenna Coil FM	1
	4 2589 20800	OSC Coil FM	1
	4 2589 20810	OSC Coil AM	1
	4 2599 20370	RF Coil Trans FM	1
<b>CAPACITORS</b>			
C01	C1HCSK470SL	Ceramic 47pF 50V ±10 %	1
C02	C1HCSK101SL	Ceramic 100pF 50V ±10 %	1
C03,14 15,19	C1HYSZ473A	Ceramic 0.047 μF 50V +80,-20 %	11
C04,44 47,54	C1AUBX224A	Alsicon 0.22 μF 10V +40,-20 %	4
C05,06 11	C1HYSZ222A	Ceramic 0.0022 μF 50V +40,-20 %	3
C07	C1HCSJ150SL	Ceramic 15pF 50V ±5 %	1
C08	C1HCDC020CK	Ceramic 2pF 50V ±0.25 %	1
C09	C1HCSK300CH	Ceramic 30pF 50V ±10 %	1

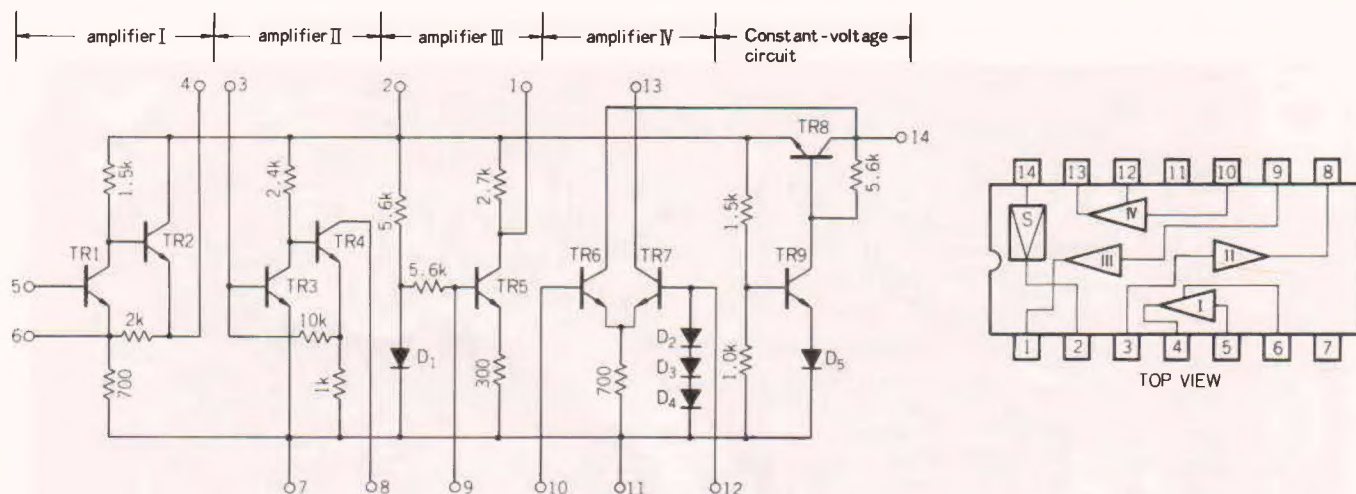
Ref.No.	Part No.	Description	Q'ty
<b>CAPACITORS</b>			
C10	C1HCSK471SL	Ceramic 470pF 50V ±10 %	1
C12	C1HCSC030CJ	Ceramic 3pF 50V ±0.25 %	1
C13	C1HCSJ200TJ	Ceramic 20pF 50V ±5 %	1
C16	C1HCDD100SL	Ceramic 10pF 50V ±0.5 %	1
C17,18	C1HBDM103V	Semiconductor 0.01 μF 50WV	2
C20,22 25,31	C1HYSZ473A	Ceramic 0.047 μF 50V +80,-20 %	4
C21	C1HBDM102V	Semiconductor 0.001 μF 50WV	1
C23	C1BBDZ204TY	Semiconductor 0.2 μF 12V +80,-20 %	1
C24,32	C1HYSZ103A	Ceramic 0.01 μF 50V +80,-20 %	2
C26,38	C1ARB-106A	Electrolytic 10 μF 10V	2
C27,28	C1HBDM223V	Semiconductor 0.022 μF 50WV	2
C29	CQJRB-226A	Electrolytic 22 μF 6.3V	1
C30,39 50,51	C1ARB-105A	Electrolytic 1 μF 10V	4
C33,34 53	C1HYSZ473A	Ceramic 0.047 μF 50V +80,-20 %	3
C35,36 37	C1HCSK331SL	Ceramic 330pF 50V ±10 %	3
C40	C1CRB-476A	Electrolytic 47 μF 16V	1
C41	C1AUBX105A	Alsicon 1 μF 10V +40,-20 %	1
C42	C1HFRM473A	Mylar 0.047 μF 50V ±20 %	1
C45	C1AUBX474A	Alsicon 0.47 μF 10V +40,-20 %	1
C46	C1HSEK152A	Styrol 1500pF 50V ±10 %	1
C48,49	C1HFRM223A	Mylar 0.022 μF 50V ±20 %	2
C52	C1HCDD050CH	Ceramic 5pF 50V ±0.5 %	1

### NOTES:

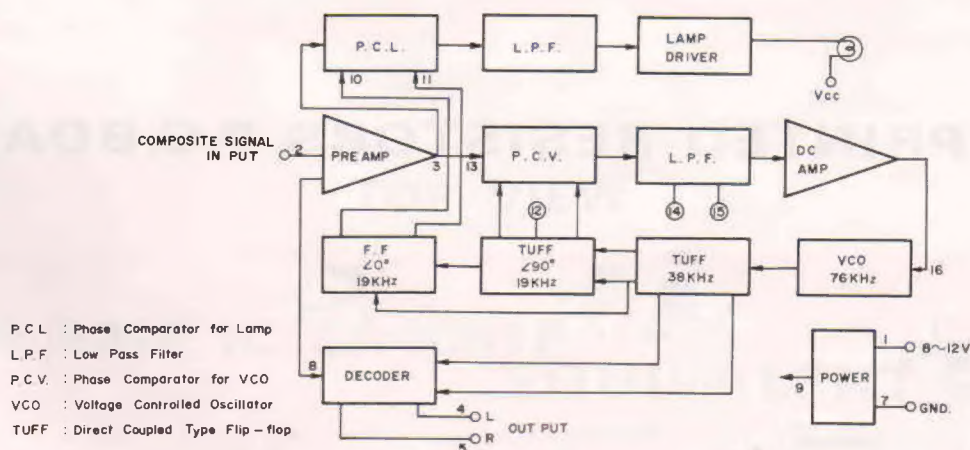
- Part orders must contain Model Number, Part Number and Description.
- Ordering quantity of screws and/or resistors must be multiple of 10 pcs.



# AM FM IF IC LA1201 EQUIVALENT CIRCUIT



## FM MPX IC LA3350 SIGNAL FLOW



## PARTS LIST

Ref.No.	Part No.	Description	Q'ty
RESISTORS			
R01	R2EDUJ222A	Carbon 2.2K 1/4W ±5 %	1
R02	R2EDUJ124A	Carbon 120K 1/4W ±5 %	1
R03	R2EDUJ151A	Carbon 150 1/4W ±5 %	1
R04	R2EDUJ221A	Carbon 220 1/4W ±5 %	1
R05	R2EDUJ472A	Carbon 4.7K 1/4W ±5 %	1
R06	R2EDUJ562A	Carbon 5.6K 1/4W ±5 %	1
R07	R2EDUJ682A	Carbon 6.8K 1/4W ±5 %	1
R08	R2EDUJ101A	Carbon 100 1/4W ±5 %	1
R09	R2EDUJ332A	Carbon 3.3K 1/4W ±5 %	1
R19	R2EDUJ473A	Carbon 47K 1/4W ±5 %	1
R35	R2EDUJ681A	Carbon 680 1/4W ±5 %	1
R41	R2EDUJ104A	Carbon 100K 1/4W ±5 %	1

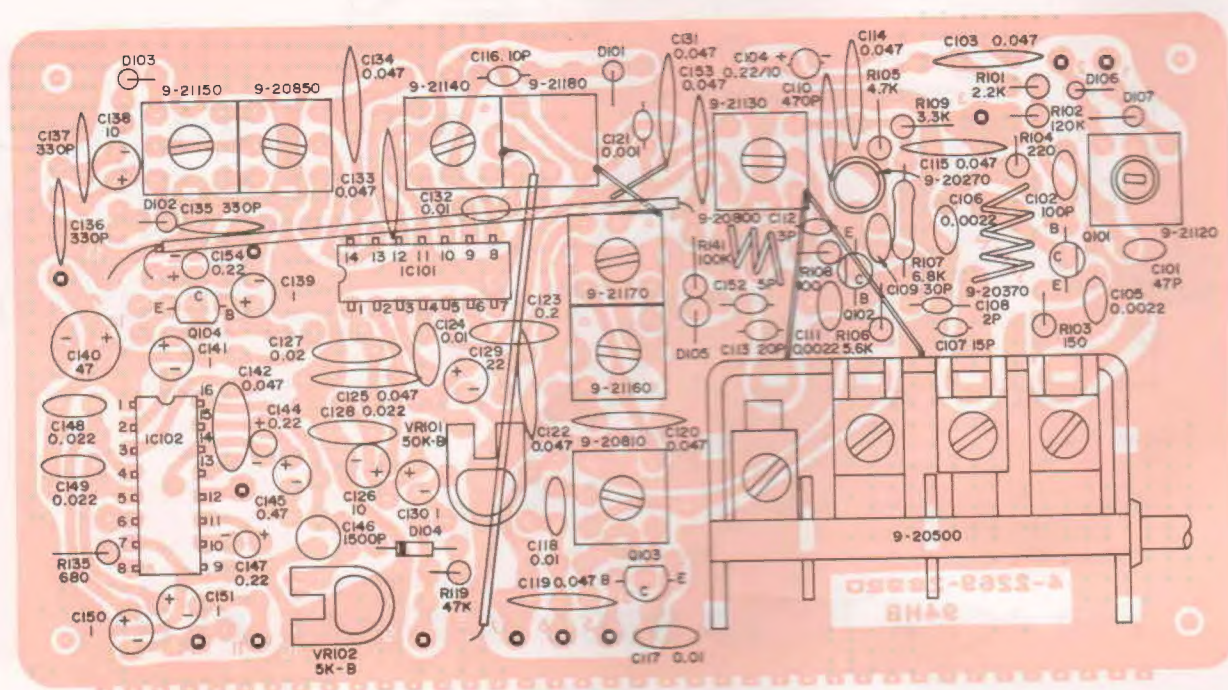
Ref.No.	Part No.	Description	Q'ty
SEMICONDUCTORS			
D01,02	202 5 9110 18820	Diode 188FM1	3
03			
D04,06	205 5 9040 44210	Diode DS-442	3
07			
D05	202 5 1000 55310	Diode IS553	1
Q01,02	203 5 5500 93040	TR 2SC930 D	2
Q03	203 5 5500 92950	TR 2SC929 E	1
Q04	203 5 5100 53640	TR 2SC536 D	1
IC01	206 5 0081 20122	IC LA1201	1
IC02	206 5 0743 35012	IC LA3350	1

### NOTES:

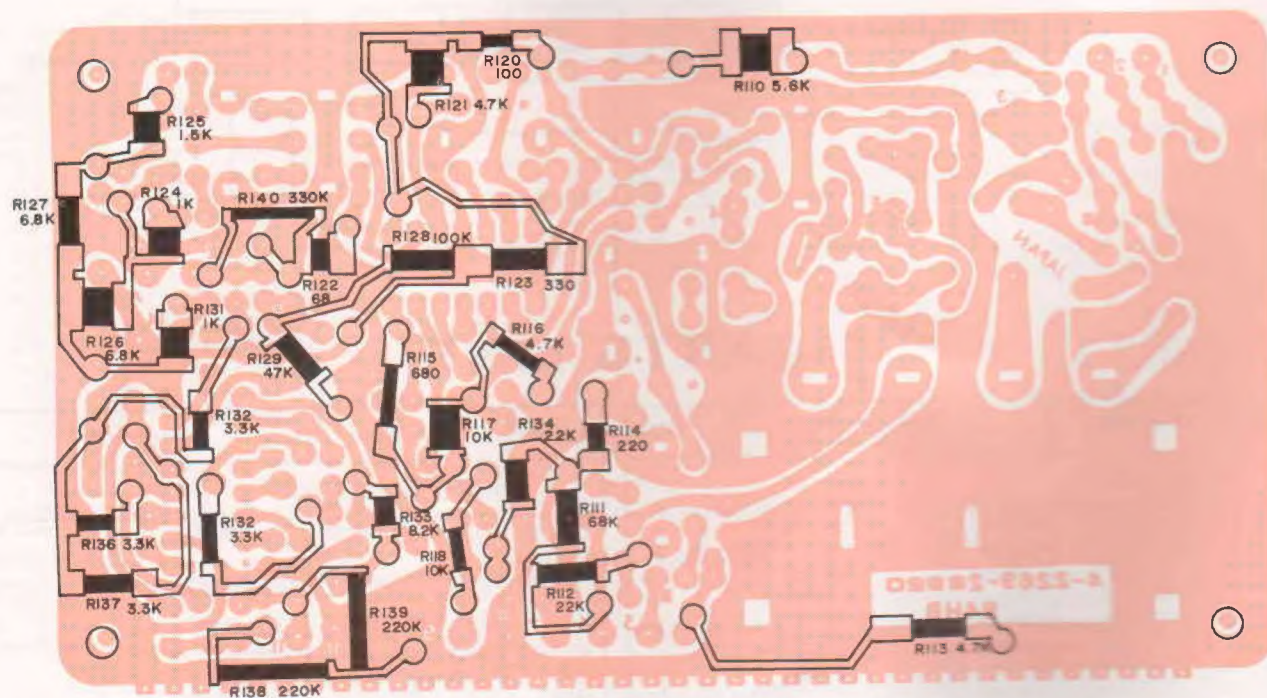
1. Part orders must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.



# AM-FM RF/IF MPX P.C.BOARD



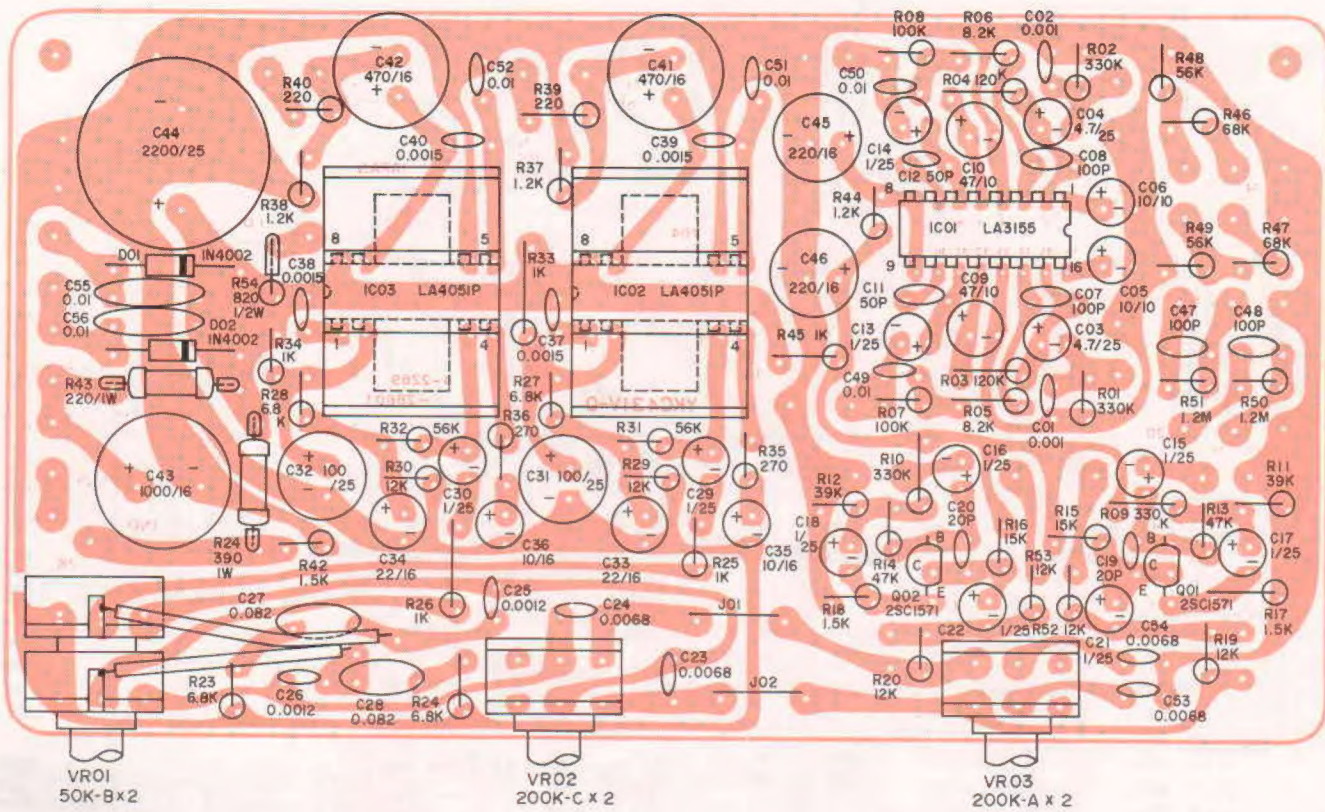
## PRINTED RESISTORS P.C.BOARD



TOP VIEW

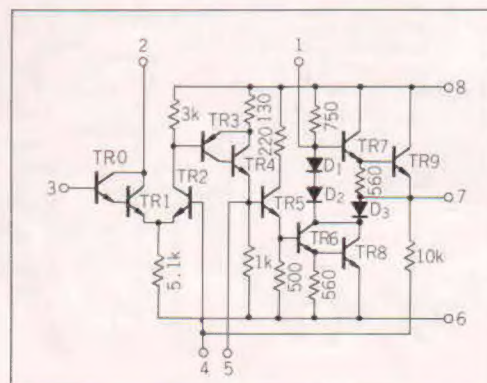


# PRE MAIN AMP POWER SUPPLY P.C.BOARD



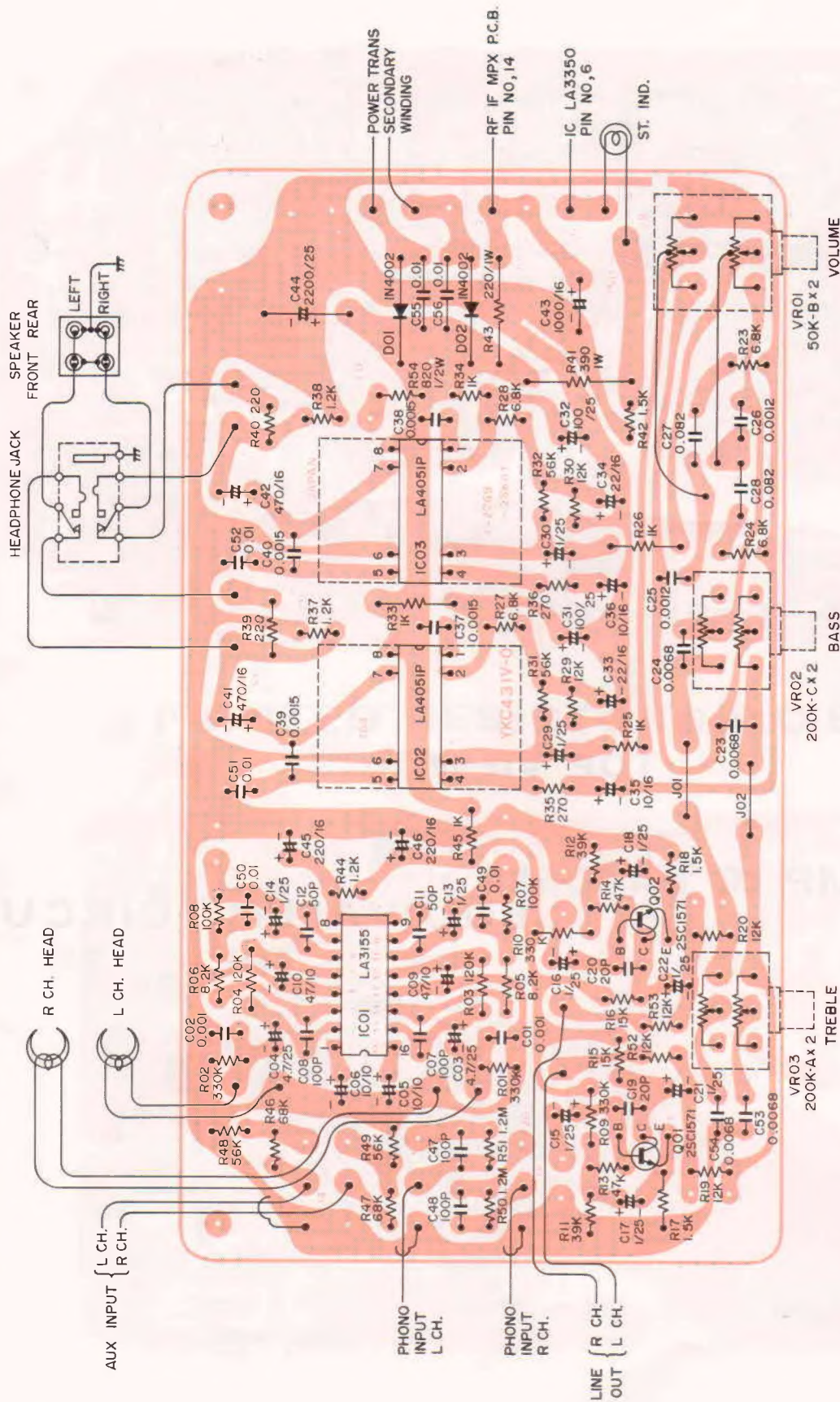
TOP VIEW

## POWER AMP IC LA4051P EQUIVALENT CIRCUIT

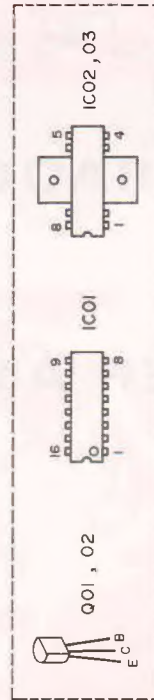




## PRE MAIN AMP POWER SUPPLY P.C.BOARD



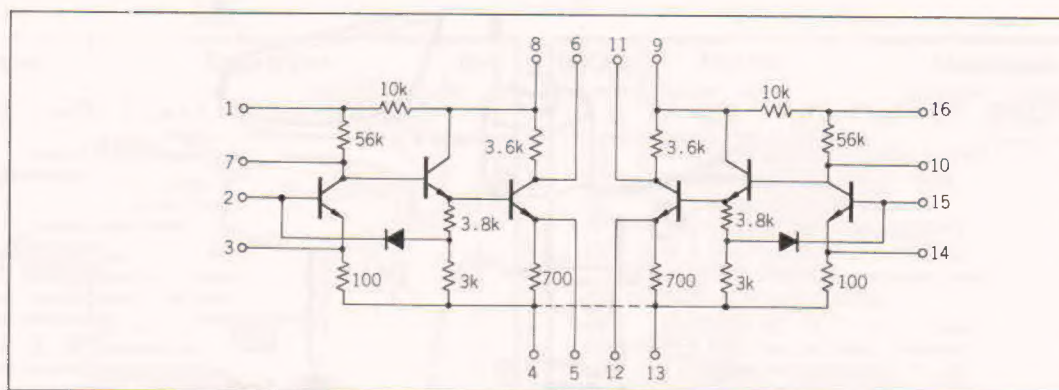
Q01, 02	2SC1571	FL-GL
IC01	LA3155	
IC02, 03	LA4051P	
DO1, 02	IN4002	



BOTTOM VIEW



# PRE AMP IC LA3155 EQUIVALENT CIRCUIT



## PARTS LIST

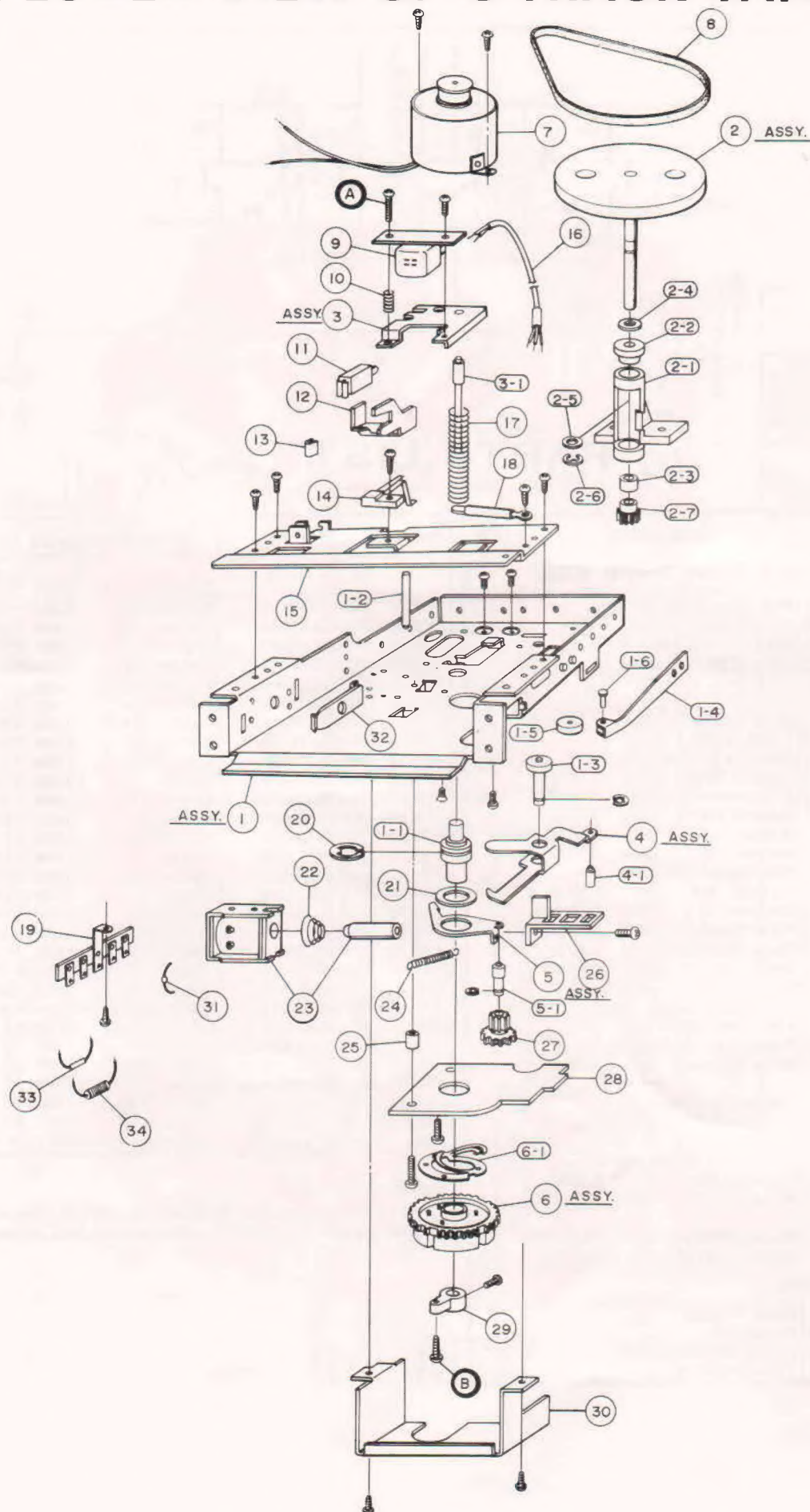
Ref.No.	Part No.	Description	Q'ty	Ref.No.	Part No.	Description	Q'ty
PRE MAIN POWER SUPPLY PCB ASSY				RESISTORS			
VR01	131 0 4001 68901	PRE, Main, Power PC Assy	1	R01,02	R2EDUJ334A	Carbon 330k 1/4W ±5 %	2
VR02	4 2229 25990	VR B-50kx2 Volume	1	R03,04	R2EDUJ124A	Carbon 120k 1/4W ±5 %	2
VR03	4 2229 25950	VR C-200kx2 Bass	1	R05,06	R2EDUJ822A	Carbon 8.2k 1/4W ±5 %	2
	4 2229 25970	VR A-200kx2 Treble	1	R07,08	R2EDUJ104A	Carbon 100k 1/4W ±5 %	2
CAPACITORS				R09,10	R2EDUJ334A	Carbon 330k 1/4W ±5 %	2
C01,02	C1HFAM102A	Mylar 0.001 μF 50V ±20 %	2	R11,12	R2EDUJ393A	Carbon 39k 1/4W ±5 %	2
C03,04	C1ERB-475A	Electrolytic 4.7 μF 25V	2	R13,14	R2EDUJ473A	Carbon 47k 1/4W ±5 %	2
C05,06	C1ARB-106A	Electrolytic 10 μF 10V	2	R15,16	R2EDUJ153A	Carbon 15k 1/4W ±5 %	2
C07,08	C1HCSK101SL	Ceramic 100pF 50V ±10 %	2	R17,18	R2EDUJ152A	Carbon 1.5k 1/4W ±5 %	2
C09,10	C1ARB-476A	Electrolytic 47 μF 10V	2	R19,20	R2EDUJ123A	Carbon 12k 1/4W ±5 %	2
C11,12	C1HCSK470SL	Ceramic 47pF 50V ±10 %	2	R23,24	R2EDUJ682A	Carbon 6.8k 1/4W ±5 %	2
C13,14	C1EUBM105A	Alsicon 1 μF 25V ±20 %	2	R25,26	R2EDUJ102A	Carbon 1k 1/4W ±5 %	2
C15,16	C1EUBM105A	Alsicon 1 μF 25V ±20 %	2	R27,28	R2EDUJ682A	Carbon 6.8k 1/4W ±5 %	2
C17,18	C1ERB-105A	Electrolytic 1 μF 25V	2	R29,30	R2EDUJ123A	Carbon 12k 1/4W ±5 %	2
C19,20	C1HCSK180SL	Ceramic 18pF 50V ±10 %	2	R31,32	R2EDUJ563A	Carbon 56k 1/4W ±5 %	2
C21,22	C1EUBM105A	Alsicon 1 μF 25V ±20 %	2	R33,34	R2EDUJ102A	Carbon 1k 1/4W ±5 %	2
C23,24	C1HFAM682A	Mylar 0.0068 μF 50V ±20 %	2	R35,36	R2EDUJ271A	Carbon 270 1/4W ±5 %	2
C25,26	C1HFAM122A	Mylar 0.0012 μF 50V ±20 %	2	R37,38	R2EDUJ122A	Carbon 1.2k 1/4W ±5 %	2
C27,28	C1HFAM823A	Mylar 0.082 μF 50V ±20 %	2	R39,40	R2EDUJ221A	Carbon 220 1/4W ±5 %	2
C29,30	C1EUBM105A	Alsicon 1 μF 25V ±20 %	2	R41	R3AXPK391A	Oxide Metal Film 390 1W ±10 %	1
C31,32	C1ERB-107A	Electrolytic 100 μF 25V	2	R42	R2EDUJ152A	Carbon 1.5k 1/4W ±5 %	1
C33,34	C1CRB-226A	Electrolytic 22 μF 16V	2	R43	R3AXPK221A	Oxide Metal Film 220 1W ±10 %	1
C35,36	C1CRB-106A	Electrolytic 10 μF 16V	2	R44	R2EDUJ122A	Carbon 1.2k 1/4W ±5 %	1
C37,38	C1HFAM152A	Mylar 0.0015 μF 50V ±20 %	4	R45	R2EDUJ102A	Carbon 1k 1/4W ±5 %	1
C39,40				R46,47	R2EDUJ683A	Carbon 68k 1/4W ±5 %	2
C41,42	C1CRB-477A	Electrolytic 470 μF 16V	2	R48,49	R2EDUJ563A	Carbon 56k 1/4W ±5 %	2
C43	C1CRB-108A	Electrolytic 1000 μF 16V	1	R50,51	R2EDUJ125A	Carbon 1.2M 1/4W ±5 %	2
C44	C1ERB-228A	Electrolytic 2200 μF 25V	1	R52,53	R2EDUJ123A	Carbon 12k 1/4W ±5 %	2
C45,46	C1CRB-227A	Electrolytic 220 μF 16V	2	R54	R2HXP821A	Oxide Metal Film 820 1/2W ±10 %	1
C47,48	C1HCSK101SL	Ceramic 100pF 50V ±10 %	2				
C49,50	C1HFAM103A	Mylar 0.01 μF 50V ±20 %	4				
C51,52							
C53,54	C1HFAM682A	Mylar 0.0068 μF 50V ±20 %	2				
C55,56	C2HYDP103A	Ceramic 0.01 μF 500V +100,-0 %	2				
SEMICONDUCTORS							
D01,02	DGG-1N4002	Diode 1N4002	2				
IC01	206 5 0703 15510	IC LA3155	1				
IC02,03	206 5 0944 05110	IC LA4051P (Main AMP)	2				
Q01,02	203 5 5151 57169	TR 2SC1571 FL	2				

### NOTES:

- Part orders must contain Model Number, Part Number and Description.
- Ordering quantity of screws and/or resistors must be multiple of 10 pcs.



# EXPLODED VIEW OF 8-TRACK TAPE DECK





## PARTS LIST

Ref.No.	Part No.	Description	Q'ty
<b>8 TRACK TAPE PLAYER MECHANISM</b>			
	131 0 4007 00402	Tape Player Assy	1
1	131 0 3807 00100	Chassis Assy	1
2	131 0 3808 00110	Flywheel Assy	1
3	131 0 3804 00130	Base Head Assy	1
4	131 0 3806 00140	Lever Stop Assy	1
5	131 0 3806 00130	Grar Arm Assy	1
6	131 0 3803 00120	Gear Cam Assy	1
7	4 5269 29003	Comutate MOT Winding	1
8	131 2 4804 00120	Rubber Belt	1
9	4 2429 20070	Magnetic Head	1
10	131 2 5801 00220	Azimuth Spring	1
11	131 2 4802 00120	Sensing Contact	1
12	131 2 3807 00110	Tape Guide	1
13	141 2 4469 08800	Pad Tape	1
14	4 2319 71280	Switch Leaf	1
15	131 2 3802 00120	Bridge	1
16	335 3 0904 80000	Core Shield UL	1
17	131 2 5801 00210	Head Base Spring	1
18	131 0 3016 10400	Cramp Wire Assy	1

Ref.No.	Part No.	Description	Q'ty
<b>8 TRACK TAPE PLAYER MECHANISM</b>			
19	4 2379 20121	Terminal Lug 4P	1
20	108 3 1110 00000	Ring E 10mm	1
21	131 2 4809 00180	Washer	1
22	131 2 5801 00230	Plunger Spring	1
23	131 0 4008 00301	Solenoid Assy	1
24	131 2 5801 00260	Spring Gear Arm	1
25	131 2 4208 21200	Spacer	1
26	131 2 3815 00110	Plunger Stopper	1
27	131 2 3822 00110	Gear Planetary	1
28	4 2269 27090	Contact P.C.B.	1
29	131 2 3811 00120	Head Base Area	1
30	131 2 1410 13700	Cover	1
31	DNN-F14K (P)	Diode F-14K (P)	1
32	131 2 3803 00120	Guide	1
33	R3AXPK100A	Oxide Metal Film 10 1W $\pm 10\%$	1
34	4 2539 20210	Choke Coil	1
A	131 2 4808 00140	Screw Azimuth	1
B	131 2 4808 00120	Screw Area	1

## NOTES:

1. Part orders must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

## 8 TRACK TAPE DECK ADJUSTMENT

Tools to be provided.

V.T.V.M.

Oscilloscope and test tape

RCA0321, Pony-806 or Victor-801

(Recorded on track 1 and 3 with 1kHz and on track 6 with 8kHz)

RCA-323

(Recorded on the full track with 400Hz)

Note on adjustment

- (1) Head core must be cleaned isoprophl alcohol before adjustment.
- (2) To be careful not to give any damage on the core face.
- (3) Adjustment should be performed as indicated.
- (4) After adjustment, each adjusted part should be locked with paint and demagnetized with eraser.

## 1. HEAD HEIGHT ADJUSTMENT

- (1) Prepare a test cartridge tape (RCA-321 or Pony-806).
- (2) Push the channel selector and index head to track 2 (on 2 channel).
- (3) Connect oscilloscope or V.T.V.M. to output current.
- (4) Turn the head height adjusting screw (No. B ... See the tape deck exploded view.) slowly right and left to find out a null. To be assured of proper setting,

making sure there is a peak on either side of the null, at the point where the intermediate output is smallest, tighten the screw for positioning.

(When a tape slips off head face, take out the tape and put the leaf switch on the power source, then pushing the selector button up and down, make sure that the position of the head core is exactly in the width of the tape guide.)

- (5) By changing channel from 4 to 2 again, make sure that the output on channel 2 is smallest. When the output on channel 2 is larger than on channel 4, readjust it as described above (4).

## 2. AZIMUTH ADJUSTMENT

In case that head is slanting on along the way a tape runs, to aquire maximum high frequency will be difficult.

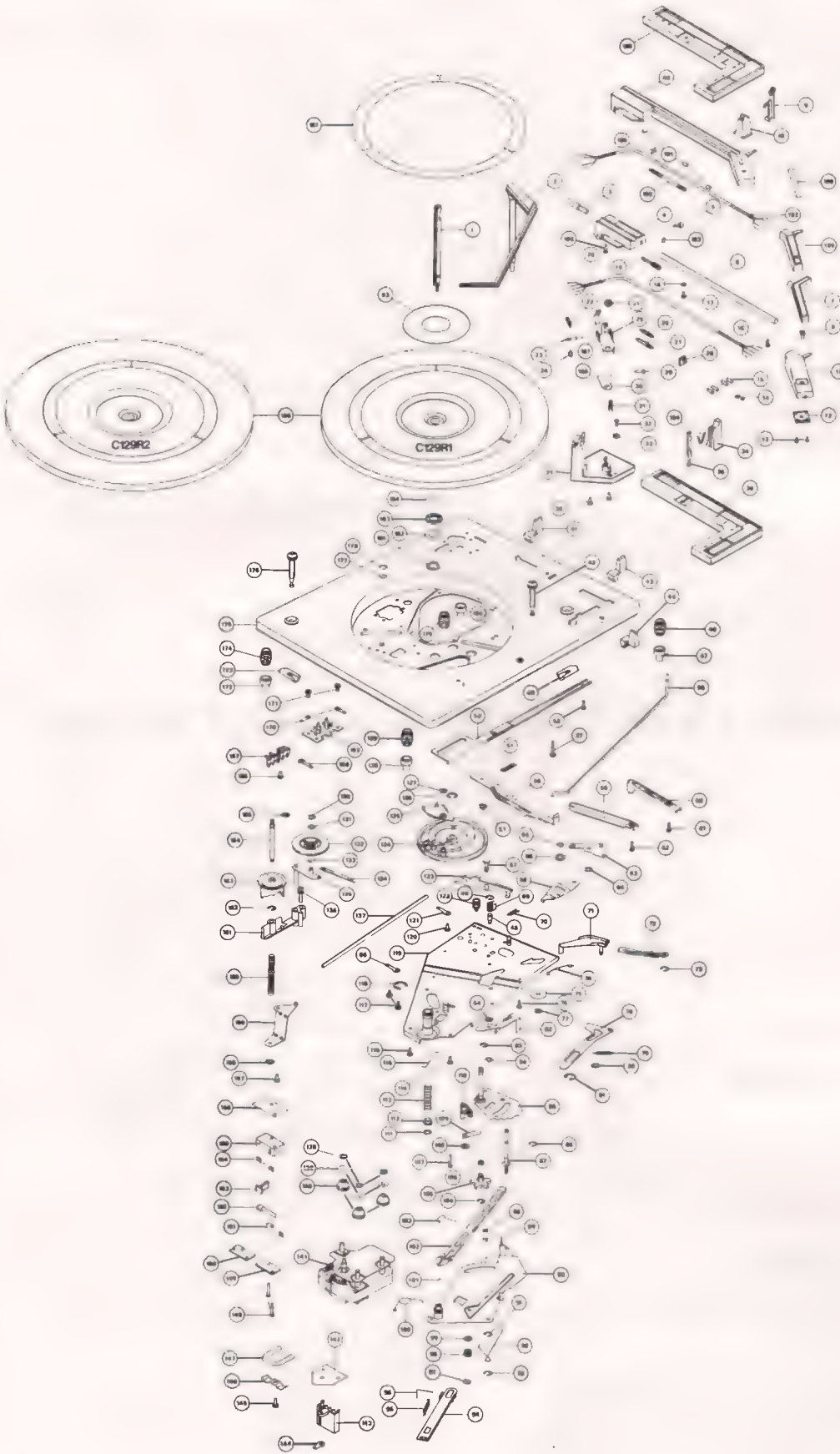
The following adjustments will be performed to cope with.

- (1) Prepare a test tape cartridge RCA-321.
- (2) Using a ( $\pm$ ), screw driver, wind the adjustment screw (No. A) to bring out maximum output on channel 2, presenting 8kHz.
- (3) As head height might be moved by this adjustment, readjustment will be required to assure the head position.



# EXPLODED VIEW OF AUTO CHANGER

BSR  
C129R1  
C129R2





## PARTS LIST

Item Part No. Description

1	A.107043	Centre Spindle Assembly
2	B.110406	Control Arm Assembly
3	A.108399	Tube End
4	A.111187	Pick-Up Body Sub Assembly
5	A.106652	Screw (Pick-Up Pivot)
6	B.107499	Pick-Up Tube
7		'Custom Design' Head
8	D.106573	6 BA x $\frac{1}{8}$ " Rec. Countersunk Head Screw
9	A.110527	Pick-Up Clip
10	B.110528	Pick-Up Rest
11	C.110397	Pick-Up Head
12	A.106775	Adaptor Plate
13	A.106506	Screw Type B No. 2 x $\frac{1}{8}$ " Rec. Pan Head
14	A.103587	Solder Tag
15	A.104306	Sleeve (4 Off)
16	A.109551	Screw Type A No. 4 x $\frac{1}{4}$ " Rec. Pan Head
17	A.109551	Screw Type A No. 4 x $\frac{1}{4}$ " Rec. Pan Head
18	A.106504	6 BA External Lockwasher
19	A.108344	Balance Adjusting Screw
20	A.106745	20°Quin Pick-Up Lead
21	A.105624	Pick-Up Spindle Nut
22	A.108382	Spring (Hinge Retainer)
23	A.108381	Pick-Up Pivot
24	A.106205	Circlip
25	A.108384	Hinge Bracket Riveting Assembly
26	A.103790	Pick-Up Balance Spring
27	A.110098	Pick-Up Balance Spring
28	A.111170	Balance Adjuster
29	A.106917	6 BA x $\frac{3}{8}$ " Cheese Head Screw
30	A.106854	Pick-Up Adjuster
31	A.106047	Locking Sleeve
32	A.105712	Adjusting Screw
33	A.105907	Nut
34	B.111152	Pick-Up Rest
35	A.106664	Pick-Up Clip
36	C.111149	Control Cover
37	A.108911	Screw Type BT 6-20 x $\frac{1}{2}$ " Rec. Pan Head
38	A.106510	Screw Type B No. 6 x $\frac{1}{4}$ " Rec. Pan Head
39	C.106138	Control Housing
40	B.110579	Pick-Up Arm Sub Assembly
41	B.110380	Knob
42	A.104189	Transit Screw
43	B.110380	Knob
44	B.110380	Knob
45	A.108894	Selector Pivot
46	A.106090	Spring (Unit Mounting)
47	A.106089	Spring Clip
48	A.102109	Circlip
49	A.102166	Retaining Clip
50	B.108113	Speed Change Slide Assembly
51	A.105826	Spring (Switch Lever)
52	A.105267	Screw Type BT 4-24 x $\frac{1}{8}$ " Rec. Pan Head
53	B.107446	Turntable Centre Disc
54	A.108893	Washer
55	B.106405	Switch Link
56	A.102126	Solder Tag
57	A.102109	Circlip
58	A.106128	Switch Lever
59	B.108119	Reject Slide
60	B.108143	Selector Slide
61	A.105267	Screw Type BT 4-24 x $\frac{1}{8}$ " Rec. Pan Head
62	A.105267	Screw Type BT 4-24 x $\frac{1}{8}$ " Rec. Pan Head
63	A.106193	Reject Plate Assembly
64	A.102109	Circlip
65	A.100785	Circlip
66	A.108461	Roller
67	A.108064	Slide Pin
68	A.108033	Detent Plate
69	A.108891	Selector Pivot Spring
70	A.108076	Spring (Detent Plate)
71	A.108283	Reject Lever Assembly
72	A.106134	Reject Link
73	A.102109	Circlip
74	A.106627	Spring (Detent)
75	A.105660	Control Washer
76	A.106510	Screw Type B No. 6 x $\frac{1}{4}$ " Rec. Pan Head
77	A.100762	Circlip
78	B.105592	Cut-Off Lever
79	A.102623	Spring (Cut-Off Lever)
80	A.102251	Retainer
81	A.101526	Circlip
82	B.108036	Selector Lever
83	A.102128	Circlip
84	A.100785	Circlip
85	B.108590	Quadrant Assembly
86	A.108334	Circlip
87	A.106697	Pick-Up Raising Spindle Assembly
88	A.108966	Washer
89	A.104077	Circlip
90	B.108168	Operating Plate Assembly
91	A.102109	Circlip
92	A.108078	Spring (Selector Drive)
93	A.102109	Circlip
94	B.105597	Feed Lever Link
95	A.105827	Spring (Link Return)
96	A.106968	Spring (Feed Lever Link)
97	A.100785	Circlip
98	A.108077	Spring
99	A.103290	Washer
100	A.106980	Spring (Operating Plate)
101	A.107419	$\frac{3}{16}$ " Diameter Ball Bearing
102	B.106962	Actuating Slide
103	A.105901	Spring (Actuating Slide)
104	A.100762	Circlip
105	B.108073	Toggle Wheel
106	A.108654	Spring Clip
107	A.106511	Screw Type BT 4-24 x $\frac{1}{4}$ " Rec. Pan Head
108	A.102237	Washer
109	A.104384	Leaf Spring
110	A.105609	Spring Support

Item Part No. Description

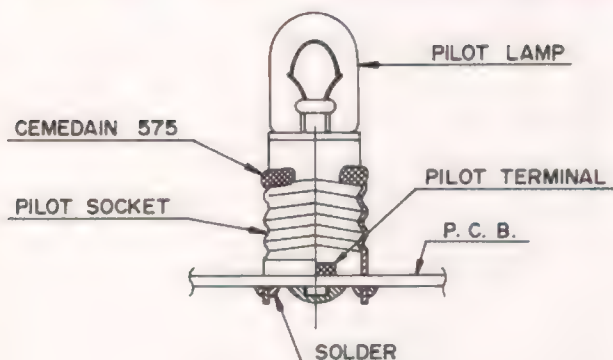
111	A.102109	Circlip
112	A.104861	Spacer
113	A.110985	Spring (Control Spindle)
114	A.106510	Screw Type B No. 6 x $\frac{1}{4}$ " Rec. Pan Head
115	A.104882	Retaining Clip
116	A.106510	Screw Type B No. 6 x $\frac{1}{4}$ " Rec. Pan Head
117	A.106510	Screw Type B No. 6 x $\frac{1}{4}$ " Rec. Pan Head
118	A.105678	Circlip
119	C.108483	Main Sub Plate Riveting Assembly
120	A.106510	Screw Type B No. 6 x $\frac{1}{4}$ " Rec. Pan Head
121	A.102128	Solder Tag
122	A.108083	Spring (Cut-Off Slide)
123	A.108034	Cut-Off Slide
124	A.102133	Cam Gear Riveting Assembly
125	A.106819	Actuating Pawl Assembly
126	A.102110	Circlip
127	A.100762	Circlip
128	A.106089	Spring Cup
129	A.106090	Spring (Unit Mounting)
130	A.100762	Circlip
131	A.101620	Jockey Pulley Spindle Washer
132	A.101623	Jockey Pulley Assembly
133	A.101620	Jockey Pulley Spindle Washer
134	A.105824	Spring (Jockey Pulley)
135	A.105965	Jockey Arm Riveting Assembly
136	A.105619	Adjusting Screw
137	A.108401	7"-3mm PVC Sleeving
138	A.100762	Circlip (3 Off)
139	A.101646	Motor Mounting Washer (3 Off)
140	A.102181	Rubber Mounting (3 Off)
141		Motor Assembly (EP20-4)
142	A.104865	Insulating Strip
143	A.103096	Amp Plug Housing
144	A.106749	4BA Tag Lockwasher
145	A.105263	Screw Type BT 6-20 x $\frac{3}{8}$ " Rec. Pan Head
146	A.102718	Cable Clamp
147	A.106513	3"-5mm PVC Sleeving
148	A.106512	Screw Type BT 4-24 x $\frac{1}{8}$ " Rec. Pan Head
149	A.108182	Switch Cover
150	A.108183	Switch Cover
151	A.200444	Contact (Domed)
152	A.200445	Contact (Flat)
153	A.200450	Switch Dolly
154	A.200446	Solder Tag (2 Off)
155	B.108181	Switch Body
156	A.106015	Retaining Strip
157	A.106510	Screw Type B No. 6 x $\frac{1}{4}$ " Rec. Pan Head
158	A.102128	Circlip
159	A.106034	Speed Change Bracket
160	A.105831	Spring (Raising Spindle)
161	B.106021	Speed Change Arm
162	A.102109	Circlip
163	B.110364	Raising Cam
164	A.108589	Raising Spindle
165	A.102128	Circlip
166	A.106510	Screw Type B No. 6 x $\frac{1}{4}$ " Rec. Pan Head
167	A.106206	Tag Mounting Strip
168	A.102126	Solder Tag
169	A.102616	Phono Socket
170	A.102126	Solder Tag (2 Off)
171	A.106510	Screw Type B No. 6 x $\frac{1}{4}$ " Rec. Pan Head
172	A.106089	Spring Cup
173	A.102166	Retaining Clip
174	A.106090	Spring (Unit Mounting)
175	B.108592	Mainplate Sub Assembly
176	A.104189	Transit Screw
177	A.102595	Washer
178	A.102109	Circlip
179	A.106090	Spring (Unit Mounting)
180	A.106089	Spring Cup
181	A.102058	Damping Washer
182	A.101506	Thrust Washer
183	A.101649	Ballrace
184	A.101506	Thrust Washer
185	D.111147	Turntable Moulding (C129R1) or D111650 Turntable Moulding (C129R2)
186	A.108833	Hinge Bracket Riveting Assembly (includes item 187)
187		Restrictor Spring
188	A.108343	Screw Type BT 4-24 x $\frac{3}{8}$ " Rec. Pan Head
189	A.105142	Spring Anchor
190	A.105237	Pick-Up Balance Spring
191	A.103373	Securing Rubber
192	A.106501	20°-Quad Pick-Up Lead
193	A.108348	Circlip
194	A.106173	Pick-Up Rest Spring
195	D.110872	Pick-Up Head
196	A.110864	Pick-Up Head Trim
197	B.111151	Turntable Trim (3 Off)
198	C.110361	Control Cover



## DIAL LAMP P.C.BOARD

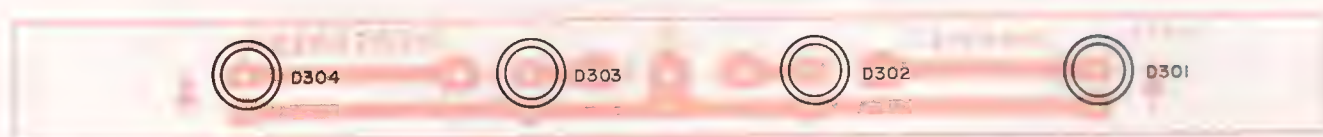


### PARTS LIST



Ref.No.	Part No.	Description	Q'ty
DIAL LAMP PCB ASSY			
	131 0 4001 64900	Dial Lamp PC Assy	1
	4 6129 20400	Pilot Lamp 6.3V 0.25A	3
	4 2359 20950	Pilot Socket Terminal	3
	4 2359 21290	Socket Pilot	3

## INDICATOR P.C.BOARD



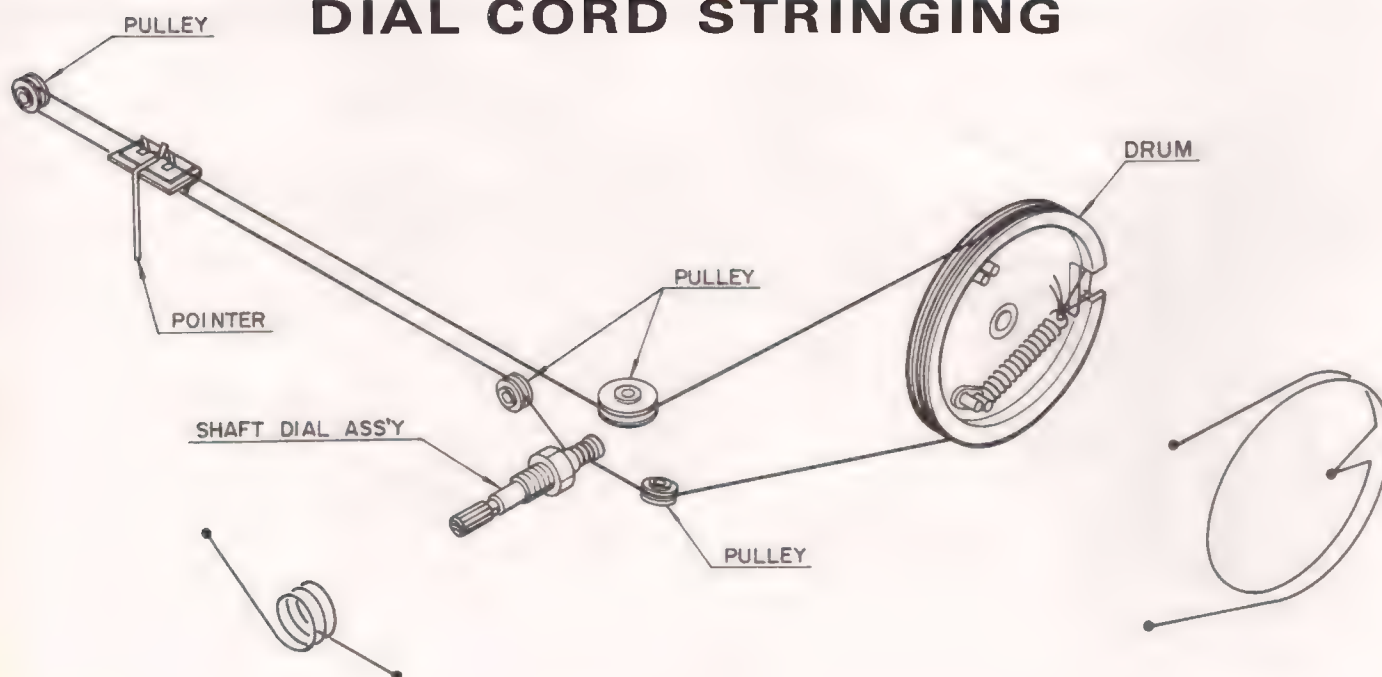
D301 ~ 304 TLR104

### PARTS LIST



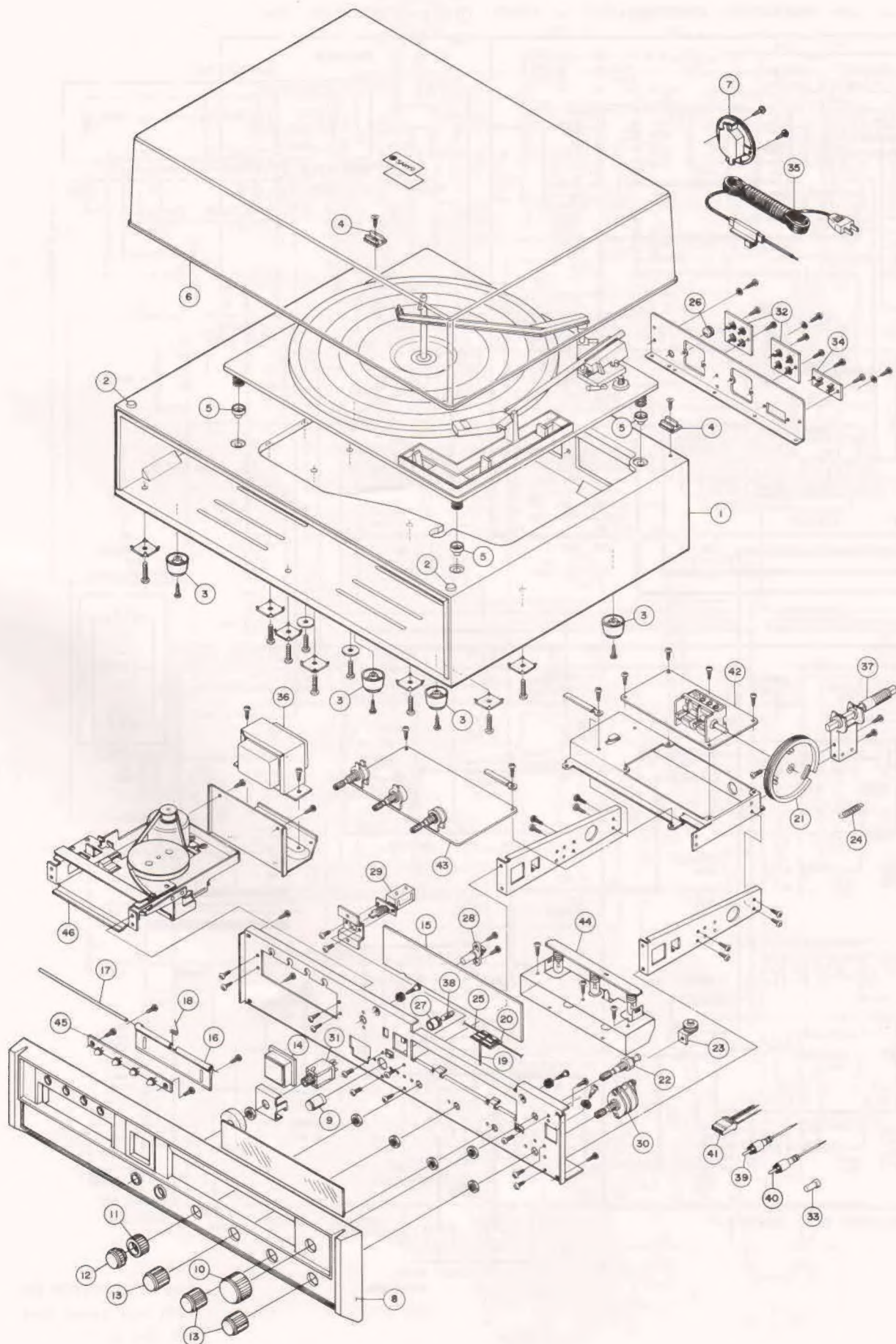
Ref.No.	Part No.	Description	Q'ty
INDICATOR PCB ASSY			
D01,02 03,04	131 0 4001 69000 DTT-TLR104	IND PC Assy Light Emitting Diode	1 4

## DIAL CORD STRINGING





# CABINET AND CHASSIS EXPLODED VIEW





## PARTS LIST

Ref.No.	Part No.	Description	Q'ty
PACKING			
	131 6 1139 55207	Box Corrugate-EXP	1
	131 6 2119 01330	Bag Polyeththlene-EXP	1
	131 6 2119 01361	Bag Polyethylene-EXP	1
	131 6 3009 20280	Pad	1
	131 6 3009 20750	Pad for Lid	1
	131 6 3009 21290	Pad Changer-Cabinet	2
ACCESSORY			
	131 6 4119 58600	Explanatory Booklet	1
	131 6 4119 55700	Instruction Book (BSR)	1
	131 6 4519 13600	Guarantee Card	1
CABINET			
1	131 2 1101 30904	Cabinet	1
2	131 2 1801 12300	Leg Cabinet Top	2
3	131 2 1801 13200	Leg Cabinet Bottom	4
4	131 2 3105 11100	Stopper Cabinet Top	2
5	131 2 5202 10600	Rubber Cushion	4
	131 2 6101 21500	Plate Shield	1
6	131 0 2022 90100	Lid Assy	1
	131 2 1310 15301	Name Plate (Lid)	1
7	131 2 1407 10300	Cover Decorate	1
	131 2 3608 10900	Cramp Wire (Line Cord ANT)	1
	131 2 6107 11900	Plate Sever	1
APPEARANCE			
8	131 0 1016 21901	Panel Decorate Assy	1
9	131 0 1001 31600	Knob Assy Power SW	1
10	131 2 1601 35400	Knob Tuning	1
11	131 2 1601 44400	Knob Volume (R CH)	1
12	131 2 1601 44500	Knob Volume (L CH)	1
13	131 2 1601 35500	Knob Function Volume	3
14	131 2 1601 38100	Knob Program	1
15	131 2 1201 27401	Plate Dial	1

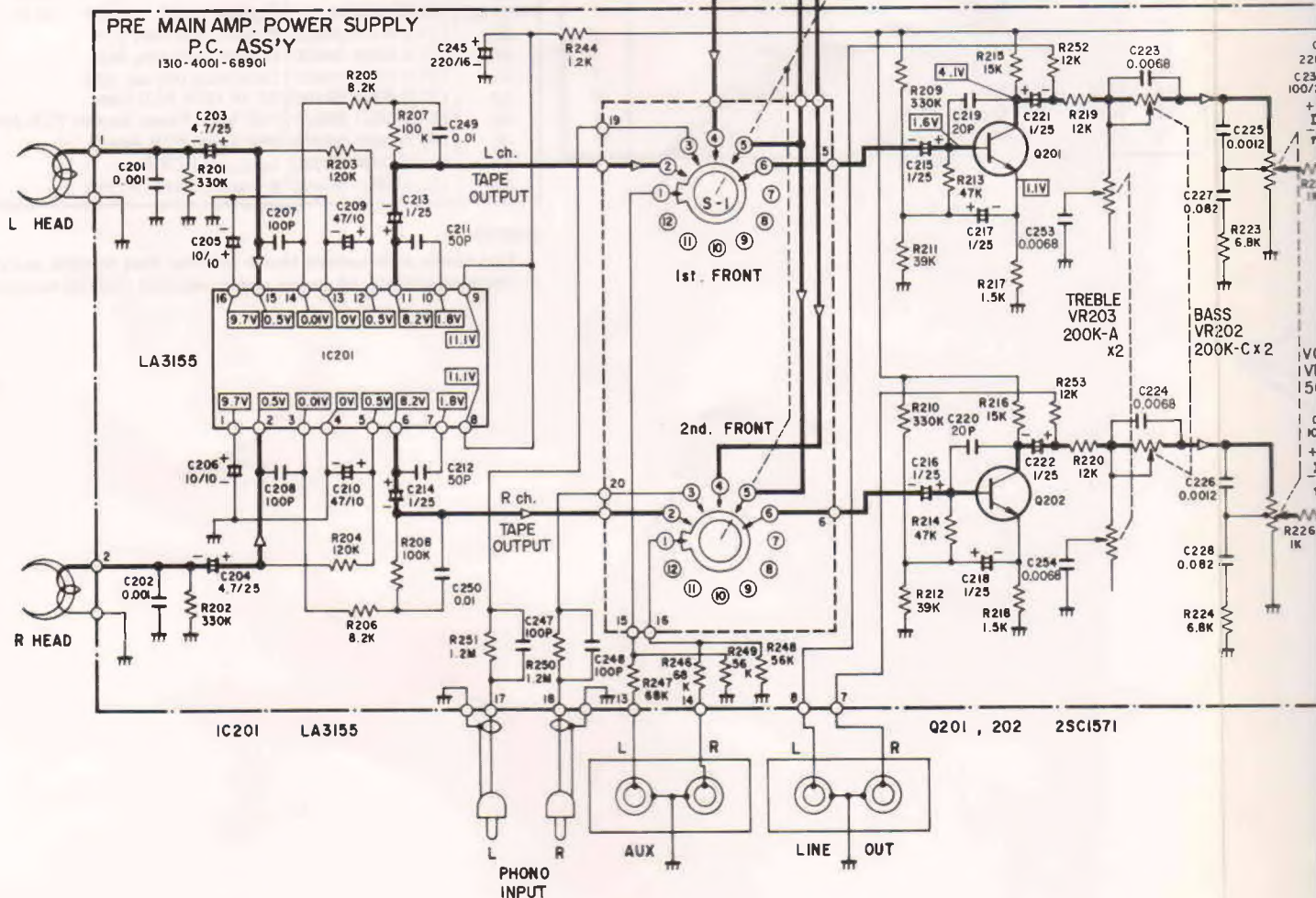
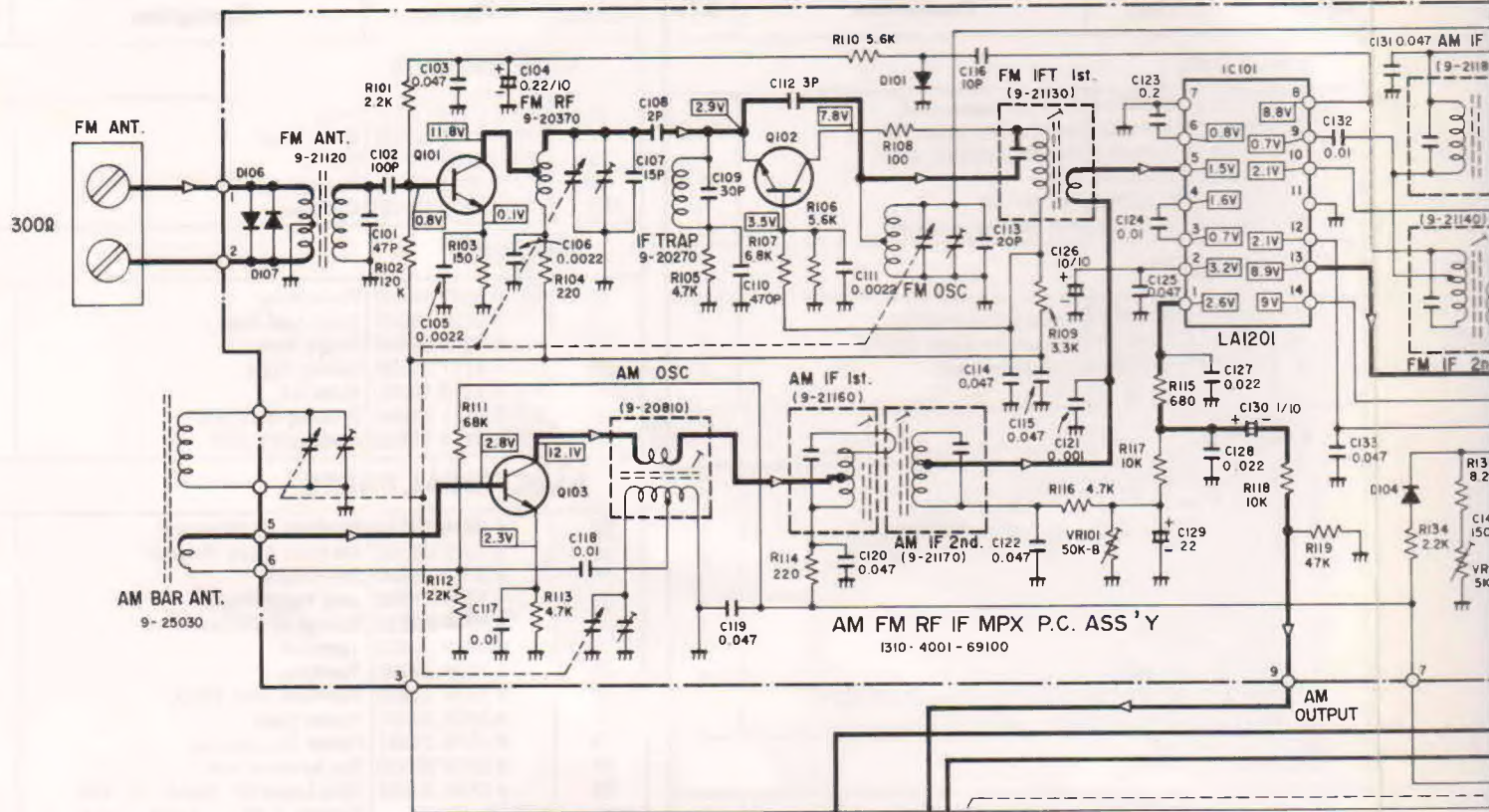
Ref.No.	Part No.	Description	Q'ty
APPEARANCE			
16	131 2 1103 15804	Door	1
17	131 2 2105 10700	Shaft Door	1
18	131 2 5101 11000	Spring	1
19	131 0 3011 16000	Pointer Assy	1
20	131 2 5205 12400	Cushion	1
CHASSIS			
21	131 0 3002 10402	Drum Assy	1
22	131 0 3003 18300	Shaft Dial Assy	1
23	131 0 3020 06300	Pulley Assy	1
24	131 2 4111 00200	Spring Rope	1
25	131 2 4112 10200	Rope 0.5	
26	131 2 6111 11300	Bushing AC Cord	1
27	131 2 6111 11700	Bushing ST IND	1
ELECTRICAL PARTS			
28	4 2319 23510	SW-Push 1P (Program)	1
29	4 2319 24070	SW-Push 1Key (Power)	1
30	4 2319 33840	SW-Rotary	1
31	4 2359 21080	Jack Head Phone	1
32	4 2359 22310	Socket 4P (RCA)	2
	4 2379 20920	Terminal	2
33	4 2379 20930	Terminal	1
34	4 2379 20940	Terminal ANT (FM)	1
35	4 2439 20397	Power Cord	1
36	4 2519 23391	Power Transformer	1
37	4 2579 25030	Bar Antenna AM	1
38	4 6129 20262	Pilot Lamp 6V 25mA ST IND	1
R03	R2EDPJ122A	Carbon 1.2k 1/4W ±5 %	1
R01,02	R2HDPJ185A	Carbon 1.8M 1/2W ±5 %	2
39	131 0 4006 06400	Phono Cord Assy Lch	1
40	131 0 4006 06500	Phono Cord Assy Rch	1
41	131 0 4006 03601	Cord Assy (Phono AC)	1
42	131 0 4001 69100	RF IF MPX PCB Assy	1
43	131 0 4001 68901	PRE Main Power Supply PCB Assy	1
44	131 0 4001 64900	Dial Lamp PCB Assy	1
45	131 0 4001 69000	Indicator PCB Assy	1
46	131 0 4007 00402	8 Track 2 CH P/B Only	1

## NOTES:

1. Part orders must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and/or resistors must be multiple of 10 pcs.

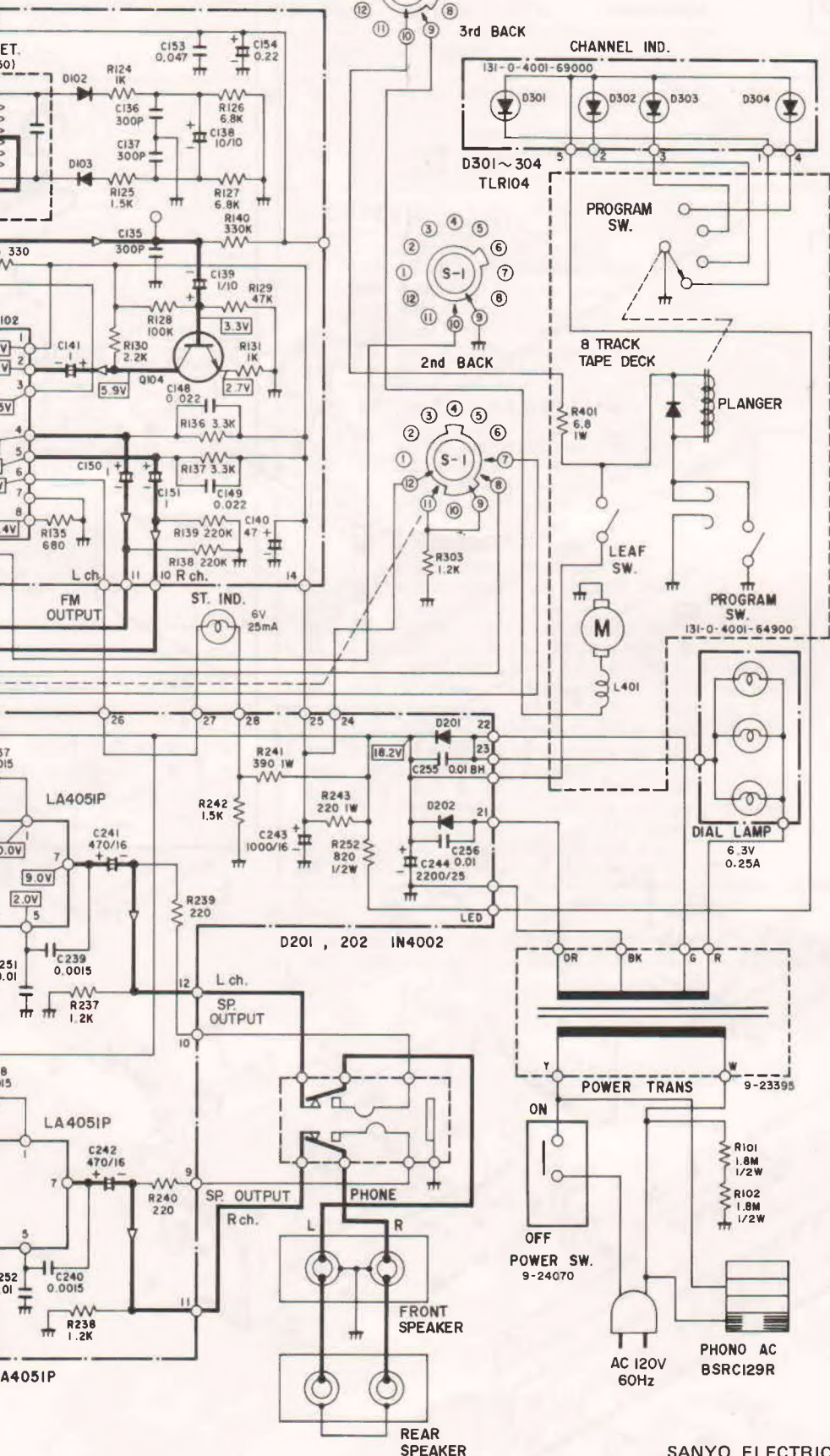


Q101, 102 2SC930 Q103 2SC929 Q104 2SC536 IC101 LA1201 IC102 LA3350 D101 ~ 103, 106, 107





42 DI05 IS553



REAR  
SPEAKER

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17 Jan/'77/4600 Printed in Japan